

CLAIMS

What is claimed is:

- 5 1. A method of processing a structured document comprising a set of elements, the method comprising:
- configuring a print option, wherein the print option comprises one or more user-configurable print parameters that indicate a user preference with respect to reducing
- 10 consumption of one or more physical resources during printing of the structured document by a browser;
- receiving a print request to print a hardcopy of the structured document being displayed within a browser window;
- 15 in response to receiving the print request, detecting the print option;
- in response to detecting the print option, generating a modified copy of the structured document in accordance with the user-configurable print parameters;
- 20 and
- printing the hardcopy of the modified structured document.
2. The method of claim 1 further comprising:
- 25 setting a user-configurable print parameter that indicates a user preference to reduce consumption of color toner during printing of documents in response to the print request.

3. The method of claim 1 further comprising:

5 setting a user-configurable print parameter that
indicates a user preference to reduce consumption of
color ink during printing of documents in response to the
print request.

4. The method of claim 1 further comprising:

10 setting a user-configurable print parameter that
indicates a user preference to reduce consumption of
paper during printing of documents in response to the
print request.

5. The method of claim 1 further comprising:

15 setting a user-configurable print parameter that
indicates a user preference as to an amount of reduction
of consumption of a physical resource during printing of
documents in response to the print request.

6. The method of claim 1 further comprising:

20 setting a user-configurable print parameter that
indicates a user preference to include, on the hardcopy
of the modified copy of the structured document, a
printed indication of a content modification to the
structured document in response to the print request.

7. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

filtering the structured document to remove an
5 element associated with a first Uniform Resource Identifier (URI) that is not located within a domain identified by a second URI by which the structured document was retrieved prior to being displayed within the browser window.

10 8. The method of claim 7 further comprising:

determining that the first URI is within a configurable list of URIs prior to removing the element associated with the first URI.

15 9. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

deleting an element.

20 10. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

deleting all elements of a specified type.

25 11. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

30 deleting an element associated with a graphical object.

12. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

5 deleting an element that is determined to be larger than a configurable maximum size.

13. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

10 deleting text within an element that is determined to be larger than a configurable maximum amount of text.

14. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

15 transcoding an element to change a value associated with an attribute selected from the group consisting of: color, font size, or margin size.

20 15. The method of claim 1, wherein the step of generating a modified copy of the structured document further comprises:

25 transcoding an element such that the element will not be rendered during a rendering process while printing the modified copy of the structured document.

16. An apparatus for processing a structured document comprising a set of elements, the apparatus comprising:

configuring means for configuring a print option, wherein the print option comprises one or more
5 user-configurable print parameters that indicate a user preference with respect to reducing consumption of one or more physical resources during printing of the structured document by a browser;

receiving means for receiving a print request to
10 print a hardcopy of the structured document being displayed within a browser window;

detecting means for detecting the print option in response to receiving the print request;

generating means for generating a modified
15 structured document in accordance with the user-configurable print parameters in response to detecting the print option; and

printing means for printing the hardcopy of the modified structured document.
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17. The apparatus of claim 16 further comprising:

first setting means for setting a user-configurable print parameter that indicates a user preference to reduce consumption of color toner during printing of
25 documents in response to the print request.

18. The apparatus of claim 16 further comprising:

second setting means for setting a user-configurable print parameter that indicates a user preference to
30 reduce consumption of color ink during printing of documents in response to the print request.

19. The apparatus of claim 16 further comprising:

third setting means for setting a user-configurable
print parameter that indicates a user preference to
5 reduce consumption of paper during printing of documents
in response to the print request.

20. The apparatus of claim 16 further comprising:

fourth setting means for setting a user-configurable
10 print parameter that indicates a user preference as to an
amount of reduction of consumption of a physical resource
during printing of documents in response to the print
request.

21. The apparatus of claim 16 further comprising:

fifth setting means for setting a user-configurable
print parameter that indicates a user preference to
include, on the hardcopy of the modified copy of the
structured document, a printed indication of a content
20 modification to the structured document in response to
the print request.

22. The apparatus of claim 16, wherein the generating
means further comprises:

25 filtering means for filtering the structured
document to remove an element associated with a first
Uniform Resource Identifier (URI) that is not located
within a domain identified by a second URI by which the
structured document was retrieved prior to being
30 displayed within the browser window.

23. The apparatus of claim 22 further comprising:
determining means for determining that the first URI
is within a configurable list of URIs prior to removing
the element associated with the first URI.

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24. The apparatus of claim 16, wherein the generating
means further comprises:

first deleting means for deleting an element.

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25. The apparatus of claim 16, wherein the generating
means further comprises:

second deleting means for deleting all elements of a
specified type.

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26. The apparatus of claim 16, wherein the generating
means further comprises:

third deleting means for deleting an element
associated with a graphical object.

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27. The apparatus of claim 16, wherein the generating
means further comprises:

fourth deleting means for deleting an element that
is determined to be larger than a configurable maximum
size.

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28. The apparatus of claim 16, wherein the generating
means further comprises:

fifth deleting means for deleting text within an
element that is determined to be larger than a
configurable maximum amount of text.

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29. The apparatus of claim 16, wherein the generating means further comprises:

first transcoding means for transcoding an element to change a value associated with an attribute selected
5 from the group consisting of: color, font size, or margin size.

30. The apparatus of claim 16, wherein the generating means further comprises:

10 second transcoding means for transcoding an element such that the element will not be rendered during a rendering process while printing the modified copy of the structured document.

31. A computer program product in a computer readable medium for use in a data processing system for processing a structured document comprising a set of elements, the computer program product comprising:

5 instructions for configuring a print option, wherein the print option comprises one or more user-configurable print parameters that indicate a user preference with respect to reducing consumption of one or more physical resources during printing of the structured document by a
10 browser;

 instructions for receiving a print request to print a hardcopy of the structured document being displayed within a browser window;

15 instructions for detecting the print option in response to receiving the print request;

 instructions for generating a modified structured document in accordance with the user-configurable print parameters in response to detecting the print option; and

20 instructions for printing the hardcopy of the modified structured document.

32. The computer program product of claim 31 further comprising:

25 instructions for setting a user-configurable print parameter that indicates a user preference to reduce consumption of color toner during printing of documents in response to the print request.

33. The computer program product of claim 31 further comprising:

instructions for setting a user-configurable print parameter that indicates a user preference to reduce consumption of color ink during printing of documents in response to the print request.

34. The computer program product of claim 31 further comprising:

instructions for setting a user-configurable print parameter that indicates a user preference to reduce consumption of paper during printing of documents in response to the print request.

35. The computer program product of claim 31 further comprising:

instructions for setting a user-configurable print parameter that indicates a user preference as to an amount of reduction of consumption of a physical resource during printing of documents in response to the print request.

36. The computer program product of claim 31 further comprising:

instructions for setting a user-configurable print parameter that indicates a user preference to include, on the hardcopy of the modified copy of the structured document, a printed indication of a content modification to the structured document in response to the print request.

37. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

instructions for filtering the structured document
5 to remove an element associated with a first Uniform Resource Identifier (URI) that is not located within a domain identified by a second URI by which the structured document was retrieved prior to being displayed within the browser window.

10 38. The computer program product of claim 37 further comprising:

instructions for determining that the first URI is
within a configurable list of URIs prior to removing the
15 element associated with the first URI.

39. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

20 instructions for deleting an element.

40. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

25 instructions for deleting all elements of a specified type.

41. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

5 instructions for deleting an element associated with a graphical object.

42. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

10 instructions for deleting an element that is determined to be larger than a configurable maximum size.

43. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

15 instructions for deleting text within an element that is determined to be larger than a configurable maximum amount of text.

20 44. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

25 instructions for transcoding an element to change a value associated with an attribute selected from the group consisting of: color, font size, or margin size.

45. The computer program product of claim 31, wherein the instructions for generating a modified copy of the structured document further comprise:

instructions for transcoding an element such that
5 the element will not be rendered during a rendering
process while printing the modified copy of the
structured document.